

**PUBLIC INVITED TO
ATTEND EXHIBITION**

The Tiger

HE ROARS FOR CLEMSON

**FULL DRESS PARADE
FOR ENG.-ARCH. DAY**

Vol. XXVIII.

Clemson College, S. C., March 16, 1933

No. 20

ENGINEERING-ARCHITECTURE EXPOSITION SET FOR MARCH 24

SECOND ANNUAL EXHIBITION SPONSORED BY TECHNICAL DEPARTMENTS OF COLLEGE

W. S. Lee, Prominent Engineer, to Deliver Address in Chapel at Noon

Clemson College's second annual Engineering-Architecture Day is scheduled to be staged on next Friday, March 24.

The program of entertainment begins at 12 o'clock in the College Chapel when Mr. William S. Lee will deliver the opening address to the cadets and visitors. Mr. Lee, besides being Vice-president and chief engineer of the Duke Power Company, has widely distributed connections with engineering concerns throughout the South, the Eastern States, and Canada. Mr. Lee is a native of Lancaster, S. C., and has previously been enthusiastically received by the cadets at Clemson.

At 2:15 the Corps of Cadets will pass in review in the first full-dress parade of this semester. The parade will be followed by an exhibition drill by the Junior Platoon, and a band concert by the College Band on Bowman Field.

Following, the exhibits of the Engineers and the Architects in the Engineering and Shop Buildings will be thrown open to the public. Guides will be provided to point out

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PROGRAM

**Engineering-Architecture Day
Friday, March 24**

12:00 Noon—Address in College Chapel by W. S. Lee.

2:15 P. M.—Full-dress parade by Corps of Cadets, followed by exhibition drill by Junior Platoon. Band concert on Bowman Field.

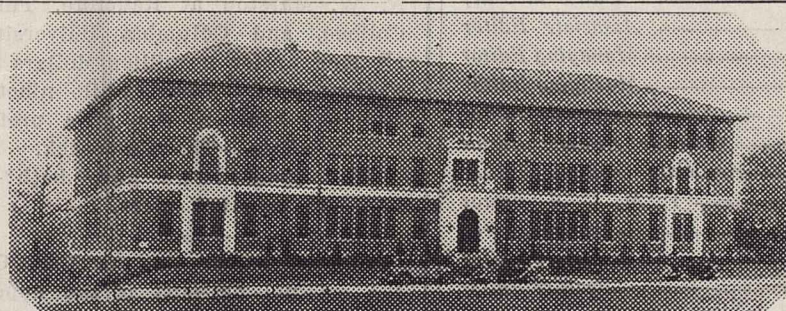
3:00-6:00 P. M.—Exhibits in Engineering and Shop Buildings thrown open to the public. (The Mechanical and Electrical laboratories will be in full operation all afternoon. The cupola in the Foundry and the Shop Building will be fired and tapped at about 4:30 or 5:00 o'clock in the afternoon. Only one run will be made during the day. Visitors are advised to be present if they desire to see this interesting spectacle.)

6:00 P. M.—Supper in Messhall for visitors.

7:30 P. M.—Entertainment in College Chapel by Jungaleers and Juniors of Engineering Dept.

8:00-9:30 P. M.—Exhibits again opened to public.

9:30 P. M.—Dance in Field House—Music by Jungaleers.



RIGGS HALL, CLEMSON'S ENGINEERING BUILDING

TAU BETA PI INDUCTS 12 JUNIOR ENGINEERS

Honorary Engineering Fraternity Holds Semi-Annual Initiation

The Clemson chapter of Tau Beta Pi, South Carolina Alpha, last week extended formal bids to 12 Engineers of the Junior class. Tau Beta Pi is the national honorary scholarship fraternity for Engineers.

The initiates in order of their class standing are as follows:

D. E. Penney, Abbeville; F. W. Edwards, Fountain Inn; W. L. Leverette, Columbia; E. M. Walker, Johnston; W. J. Burton, Seneca; J. S. Geer, Greenville; J. B. Barnwell, Florence; R. J. Green, Orangeburg; H. B. Rainey, Campobello; S. R. Patterson, Seneca; E. H. King, Mullins; R. H. Middleton, Clarks Hill. R. B. Shores, Spartanburg was taken in last semester as the Honor Junior.

Membership in Tau Beta Pi is the highest honor which can be bestowed upon an engineering student. This scholarship fraternity has member organizations in the leading technical schools of the nation. Wherever engineers gather Tau Beta Pi is known and recognized as a distinct honor for the man who is invited to join.

Only those who maintain a certain high average in their studies are eligible, two initiations being held every year. During the second semester of the school year, the students comprising the upper eighth of the Junior class, on a basis of grades on academic studies, are initiated into the society. The following fall, the next 12 and 1/2 per cent of the Senior class is taken in.

The Clemson chapter of Tau Beta Pi was installed in the fall of 1928.

SHOPS OFFER MANY COLORFUL DISPLAYS

Iron-Melting Cupola to Be Seen in Operation

Among the most interesting and instructive exhibitions to be presented at Clemson next Friday will be those in the woodshop, the forge, the foundry, and the machine shop. The entire shop building will be open to the public, and students may be observed at work.

All of these shops are equipped with modern, thoroughly up-to-date machines and tools. In the wood-working division the construction of

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BLUE KEY FRATERNITY ADMITS TWO NEW MEN

W. E. Gore and W. F. Tribble Honored by Society

Last Tuesday night the Blue Key Fraternity formally initiated two new men, Captains W. E. Gore and W. F. Tribble. These men were admitted because of their past honors and their outstanding qualities of leadership and ability. Others are to be admitted in the near future.

Plans are being made to invite the leading citizens in the Kiwanis and Rotary Clubs of the nearby towns to a banquet sponsored by Blue Key in the interest of the college.

Any Junior wishing to be considered as a pledge is invited to turn in a list of his accomplishments to T. O. Bowen, president of the Blue Key.

FULL-DRESS PARADE TO FEATURE SHOW

Followed by Exhibition Drill and Band Concert

The opening of the program on Engineering-Architecture day will be featured by a full dress parade of the entire regiment at 2 P. M., after which Colonel Morris will give an exhibition drill of the Crack Junior Platoon. At the present time there are about 75 Juniors trying out for the platoon which is rapidly approaching perfection in the execution of many new and complicated movements. After completion of the drill the Clemson College Band will render a concert, which will last until 3 P. M. The further exercises of the day will then be taken up at the Engineering Building.

It is expected that a great crowd will be present at these exercises. Lt. Col. West, his staff, and the whole corps of cadets are all strongly supporting both the Architecture and Engineering Departments in the anticipation that the day will be one of the most successful of the year.

An informal dance in the field house during the evening will add the finishing touches to the ceremonies.

Civil and Architectural Divisions Have Displays

CIVIL DEPARTMENT ARCHITECTURAL DEPT.

Plans are now under way in preparation for the second annual Engineering and Architecture Day to be held at Clemson on Friday March 24. This exhibition became an annual event last year when visitors from all parts of South Carolina gathered and voiced their admiration for the exhibits constructed by students of the Engineering and Architectural Departments of the College.

The Civil Engineering division is cooperating with the other branches of the Engineering Department in an effort to excel last year's presentation. Construction is being supervised by Senior members of the Civil Engineering division on a variety of projects. All members of the division, students and faculty, have expressed their intentions of cooperating in order to make their part of the exhibitions of worthwhile interest to visitors.

One of the interesting foci of the Civil Engineering display will be embodied in a series of construction material tests. Such tests as determining the strength of concrete beams, demonstrating the bond between concrete and steel in reinforced concrete construction, finding the strength of bricks, and measuring tensions in steel beams will be accurately conducted.

A miniature railroad, including grades and curves mathematically calculated and precisely laid out,

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The Architectural Department is working hard getting the material in shape for the big day on March 24. The entire top floor of the Engineering Building will be devoted to the various exhibits of the Architectural Department. While the pageant which was to be presented by this department has been called off, it is certain that there will be some kind of activity in the college chapel that evening, probably under the supervision of the Engineering Division.

While the exhibition must of necessity be on the same general plan as that of last year, all the exhibits will consist of new work and there should be plenty to interest everyone.

The students are working on a series of scale drawings of several of the old mansions around Pendleton, including the Calhoun and Ravenel mansions. There will also be a scale model of the Calhoun mansion on exhibition, and while this was displayed last year it should always be of interest to visitors because of the great historic value of the original.

There will be special exhibits of different decorative materials on display such as tapestries, draperies, etc. These should prove very interesting and educational to visitors.

A display of Japanese art has also been secured for exhibition in

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Mechanical and Electrical Depts. Preparing Exhibits

MECHANICAL DEPT. ELECTRICAL DEPT.

The General Exhibit of the Mechanical Engineering Department is one which should prove of major interest to spectators due to its wealth of originality and the unique quality of the displays.

Chief among the projects are a steam engine and steam turbine, both of which run without steam. They are so ingeniously constructed that they seem to describe that action so long and fruitlessly sought after by inventors—perpetual motion.

In the basement of the Engineering Building is a miniature power plant using as its source of power a Francis Reaction Water Turbine. This turbine is connected to a Direct Current generator and a panel containing all the necessary apparatus and instruments for correct handling of the current just as in a regular power house.

A device demonstrating some of the principles of Aerodynamics has been built by a group of air-minded students. It consists of a large wind tunnel with a small model air plane in it. This tunnel, to which the air current is supplied by a Sirocco blower, is shaped like an ancient blunderbuss. It is an almost exact replica of those used in large flying schools.

A vivid contrast of the automotive engineering of 20 years ago and of today will be offered in the

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The Electrical Department is bending every effort to make this year's Engineering-Architecture Day better and more spectacular than ever. At present students are working on more than 26 exhibits involving almost every phase of electricity.

The display which will probably attract more attention than any other is the Tesla Coil outfit which is almost completed. With this apparatus, which was made almost entirely by students, the operators expect to generate an electric discharge strong enough to jump a gap of 2 feet. The flaming spark will be led around at will and made to perform many spectacular stunts.

The modern "Aladdin's Lamp", the photo-electric cell, will be used to start motors from a distance, to transmit sound over a beam of light and to perform many other mystifying acts.

One of the most important problems confronting the electrical engineer today, that of power transmission, will be illustrated by two exhibits. One will trace the progress of the current from the power house, through transformers, over high tension lines, through more transformers to homes and factories.

The other display will show the path of the current from a hydro-electric development to an electric

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The Tiger

"HE ROARS FOR CLEMSON"

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EDITORIAL

ENGINEERING-ARCHITECTURE DAY

Next Friday Clemson's Engineering and Architectural students stage the second exposition of its kind ever attempted by a college in South Carolina, or by any college in the South for that matter. It is a colossal undertaking—one that could be put over by no other college in the state. It is indeed fitting that Clemson, the Engineering school of South Carolina, should be the pioneer of this innovation.

More than just a first rate school of Engineering is required to successfully put over such an enormous affair as that planned. It requires abundant initiative, endless resourcefulness, and untiring perseverance. However, the benefits derived by all concerned are incommensurable. The college as a whole is boosted in prominence, the students themselves gain priceless experience and an outlet for their natural talents, and the interest of the public in student and collegiate activities is stimulated at the same time.

One of the greatest needs of the present system of higher education today is a better, more intimate relation and understanding between the colleges and the public. Engineering-Architecture Day affords one of the best means of fostering the interest of outsiders in the far-reaching work that Clemson is doing among the coming leaders of the state.

Those in charge of the preparations—both faculty and students—deserve the highest praise for the time and labor they have spent in working out and assembling the large number of projects required. Although there is still another week left, there is much that remains to be done. Anyone interested in taking part in the work may yet do so by applying to those in charge. Every Engineer in Clemson should do his part in making this Engineering-Architecture Day a red letter occasion in the history of Clemson College.

TENNIS COURTS AT LAST

At last some of the friends of the tennis-playing members of the Corps have gotten together and had something done about the condition of the courts on the campus. The recent work of rebuilding these courts was brought about through the combined efforts of Dr. Milford and the Y. M. C. A. Mr. Newman furnished the necessary men and equipment for the work. In addition to the tennis courts several horse shoe courts were built just on the outside of the backstops. These seem to be going over big. They are crowded every afternoon.

The above work is part of a plan to popularize minor athletics at Clemson. It is ultimately hoped that every man in the Corps will be engaged in some form of athletics.



The definition of a Co-ed as stated by a Creighton freshman seems to put the "little lassies" in their proverbial "inferior places". This young man says that a co-ed is merely a contraction of the word Co-educational applied to young ladies who aspire to compete for an education with the higher type of human. Now, do you feel bad, girls, or do you feel bad?

According to tests made by Dr. N. W. Marston at Radcliffe, Tufts College, and Columbia University, all men prefer a million dollars to a perfect love affair, while ninety-two per cent of the girls prefer a love affair.—The Gamecock.

Why couldn't we have both?—It would be much nicer.

According to the GAMECOCK the original optimist is the upper-classman at Lincoln Memorial University who hazed a young professor by mistake and then signed up for a course under him.

The following extract from the JOHNSONIAN is self explanatory: "If much more is said about the 'reeking' poetry of the 'mushy young Winthrop lassie' the TIGER will confirm our suspicion that it is endeavoring to revive the slamming days of 'personal' editorship that went out with Dana".

In order to avoid reality "the little girls" expose us to a severe censoring for telling the "truth that hurts" but we can take 'em better than we can dish 'em out.

Your writer was somewhat surprised upon seeing the following headline in THE INDIAN: "Lippincott Entertains—Performs many tricks before large gathering." Has our "Prof" been playing tricks out of school? No, guess not—His tricks are all too stale to entertain.

The Tiger's roar seems to echo throughout every female institution in these parts. Sometime ago it echoed to the tune of a \$3.95 telephone call on "the red side" of one of our Coker admirer's books—What a shame!

Commercial Football Favored by "Spectator"

New York—(IP)—Taking one of the most radical stands ever made by a college newspaper in connection with football, the Columbia Spectator has come out in favor of out-and-out paid football players.

The Spectator has been a bitter critic of "commercialism" in college football. In an editorial it says:

"We think payment and favoritism toward football players is natural under the present system. We are convinced that football players at present do not get an adequate return for the time and effort expended and the hardships endured. In fact if it is necessary to continue the present system, we would advocate open remuneration of football players to an extent commensurate with their services to the university and open recognition of football as a paid advertising medium."

The largest sun spots on record, covering an average of 77,000 sq. miles each, have been photographed in the last few weeks at the astronomical observatory in Madrid.

With the good weather that we enjoy in this part of the state every man should try to spend part of every day out-of-doors. Exercise taken in the open air is the best form of preventive medicine known. Participating in lighter forms of athletics is perhaps the best and most entertaining way of staying out of doors.

SNOOPS AND WHOOPS

By ALEX DICKSON

And so the Clemson College Social calendar hit a new high this past week-end. It has been some time since so many beautiful young ladies and so great a number of enthusiastic members of the Corps have been assembled for such an occasion. The dance Friday night was unquestionably one of the best held here since September. It was even more reminiscent of the "old Clemson dances", and revealed the fact that, even though there has been an obvious slump in this year's dances, we can still have a good dance. It is also evident that the percentage of the Corps that like to dance is just as large, if not larger, now as it had ever been B. C. (Before Central Dance Committees).

The Phi Psi Fraternity should be congratulated for the swell affair sponsored by them at the Parish House Saturday night. Although the dances held in the Parish House are usually termed "small dances", this was by no means a diminutive gathering. The crowd was one more suitable for the spacious areas of the Field House, but the dance went on in high style and everyone went away well pleased.

More light is thrown on the Co-ed situation. A letter received a few days ago reveals a few desires of one of our fair young school-mates. With the greatest of pleasure and kind feeling for the fairer sex, and with every wish that it will enlighten her little heart, we do hereby publish the said, unsigned letter:

"Would you like some suggestions for your column? Here are a few things I would like to do: Trip Colonel Morris when he has on those 'yellow boots'.—Be able to jump the high hurdles.—Muss up Major Wray's hair 'til he looks like Stan Laurel of Laurel and Hardy.—Be in on some of the sessions in the barracks.—Would I get gossip! Put an elevator in the Main Building so I wouldn't have to climb those awful steps. (Signed) "A Co-ed."

Although we have no idea who wrote the letter, it remains obvious that it couldn't have been "our Babe". She sprints and bounds up those "awful steps", she can run the high hurdles, and if she wanted to trip Edgar of muss up Beecham's hair, she wouldn't hesitate to do so. Thus do we eliminate the "Babe". However such letters expressing the sentiment of the Co-eds will be appreciated at all times.

A great friendship resulted from the dance Friday night. Two boys having a common interest in the same girl—as is the case in countless situations. Thackston and Witherspoon are matching their wits in an attempt to gain the hand of one "Georgia Peach", but, unlike most cases of this nature, this is no cut throat affair—The boys are going about it in an amiable way.

And "Squirby" Shaw is running around kicking himself in the pants for not going to camp last summer. It doesn't seem to have taken him long to realize what he has been missing.

Bill and "Potas" sure looked good coming in the dance Friday night. "Potas", we saw the big smile on your face and the bump on your head too.

OBSERVATION AND COMMENT

By AL THOMAS

Those who missed President Roosevelt's radio address on Sunday evening are unfortunate. He explained, in a clear and concise manner, the motives of the various moves of the government in their program for the rehabilitation of the financial structure of the country. His speech, in itself, was enough to restore confidence to many. Confidence is the fuel necessary to run the machinery of reconstruction. And, apparently, confidence is returning to the people of America. Confidence in the leader leads to confidence in the subordinates; and so on down the ladder until again we will trust our neighbors. With fear banished, normality will return.

At the Citadel, if a man in the Junior class does not attempt to win a position on the Junior Platoon he is considered lacking in school spirit. Their one purpose is to beat Clemson at Ft. McClellan. This is straight dope from several Citadel men. Here at Clemson, everyone in the school, except former members of the platoon, believes that the sole purpose of trying to place on that organization is to pull someone's leg. That is decidedly the wrong attitude to take about the matter. There are several elements that enter into the question. Well organized close-order drill is not a bore, it's fun, believe it or not. Another thing is the fact that it is a feather in the cap of a comparatively semi-military school to put out a platoon that can out-drill that of a school whose every activity is closely associated with militarism.

FAMOUS AUTHOR HAS NEW BOOK BROADCAST

Octavus Roy Cohen's Latest Mystery Story is "On the Air"

Octavus Roy Cohen, well known writer, whose new book "Townsend Murder Mystery" is being broadcast over a nation wide hook up at this time, is a native of South Carolina and an ex-student of Clemson College.

Dr. Cohen has the distinction of being the first author to have a book broadcast serially before publication, while added interest is attached by the fact that sponsors of the program offer a \$10,000 prize for a solution of the murder mystery.

Dr. Cohen was a leader of his class in English at Clemson from 1907 to 1909, and then gave great promise as a story writer. Frequent mention is made of the college in his stories, many of which are laid in this section of the South.

Dr. D. W. Daniel, director of the school of arts and science, and a personal friend of Dr. Cohen, several years ago proposed that the college confer upon him an honorary doctor's degree, a distinction he has since received from another college.—Anderson Daily Mail.

Did you happen to see in The Greenville News where there would be Battalion parades at Clemson College on Saturday afternoons, starting in the next few weeks? Now who wouldn't like to parade? What's a mere week-end between battalions?

Melvin Blitch was back in form at the dances. Now Cap'n, watch your step. We'll be expecting big things from you next year.



VESPER SERVICES

Vesper Services were held in the auditorium of the Y. M. C. A. last Sunday evening. Prof. George R. Sherrill, associate professor of History and Economics of Clemson College, was the speaker for the evening.

Prof. Sherrill's topic for discussion was the "Praise of the Common Man". He remarked that the person who thinks that he possesses a greater degree of intellectual distinction sooner or later becomes aware of the fact that he is, after all, only a common man. Of the many persons given the intelligence test during the World War, he said, only 13 per cent possessed outstanding intelligence. He also said that the average men make up the predominating class.

Three characteristics which he said make for success in life are as follows: first, using the talent one possesses; second, fighting the hardest fight when in the clutches of defeat; third, withholding one's temper when subjected to the fire of criticism.

The thoughts which the speaker left in mind were that one should be encouraged by the fact that the most competition comes from the common man, and that one who possesses the above mentioned characteristics will make the greatest success of life.

The service was closed with a prayer by Wade Perry.

DEPUTATION TEAM

The Y. M. C. A. Deputation Team presented a program at LaFrance, near Anderson, Thursday night, March 9. Several musical selections were rendered by a quartet composed of Roy Cooper, H. J. Webb, B. M. Latham, and D. N. Chapin. A solo was also sung by Romaine Smith. Talks were made by Roy Cooper, W. B. Perry, and B. M. Latham.

The members of the team had previously planned to attend the Interstate (North and South Carolina) Y. M. C. A. Conference in Charleston for the weekend of Mar. 11) but as the conference was postponed until a later date, they did not make the trip. They had also planned to present several programs, including a broadcast over the Charleston broadcasting station, while there. This trip will be made at a later date.

FREE THROW BASKETBALL CONTEST

The Free Throw Contest sponsored by the Y. M. C. A. continues with J. W. Davis leading all participants with a score of 35 out of a possible 40. M. Wood, and J. L. Floyd have tied for second place, each having a score of 30 out of a possible 40.

In the first round, each participant shoots 20 fouls in succession. To give the contest a competitive touch the next 20 shots are alternated between the man shooting the first 20 shots and some other contestant, each taking 5 shots until the total number of shots are 20. The 16 highest scorers from all contestants will participate in the second round; the eight highest scorers from the second round will participate in the third round, and so on in like manner until by the process of elimination the winner is chosen. The man so fortunate as to win this contest will be awarded the Newman Trophy.

ARE YOU A "HORSESHOEIST?"

Have you noticed the new horseshoe court located immediately to the rear of the tennis courts? This court was built by the Y. M. C. A. It is estimated that between two and three hundred students visit these courts each day. From morn till dark, the clank of horseshoes and the laughter and merriment of the "horseshoeists" can be heard. This pastime is as popular as yo-yo rick-rack, ping-pong, and jug-saw puzzles have been in the past. Banish your troubles and thoughts of the depression by coming out and playing with the symbols of good luck—horseshoes!

SOPHOMORE COUNCIL

The Sophomore Council held its weekly meeting in the club room of the Y. M. C. A. Tuesday evening, March 7. The meeting was devoted primarily to business. Plans were made whereby the cost of the lighting fixture on the clock in the Y. M. C. A. auditorium would be defrayed. A discussion then followed in which a solution for the extinction of college cheating was the dominating subject. The business matter concluded, the meeting adjourned.

PICTURE SHOW SCHEDULE (Tentative)

Friday—"Topaze" starring Barrymore. This show is said to be exceptionally good.

Saturday—"Woman Accused" or "Hell's Highway".

Monday—"From Hell to Heaven" will be run unless a substitution is secured.

Wednesday—"Bring 'Em Back Alive."

Thursday—"The Guardsman" featuring Fontaine and Lunt.

PHOTO ELECTRIC CELL TO PERFORM FOR E. E.

Recent Developments Will be Shown in Interesting Exhibit

One of the most interesting exhibits of the Electrical Engineering Department will be a photo-electric cell. The use of this device has been spreading rapidly of late and it is being used commercially in many ways.

If a ray of light focused upon the cell is cut off, the cell will register this action. This method is used directly in many burglar alarms, the cell being connected with the alarm. It can be used to detect fires by the smoke and also for counting objects, etc. Many bottling concerns use it to detect trash or foreign matter in the contents of the bottles. Any foreign matter in the contents will render the light from that bottle opaque, thus causing an impression upon the cell.

The photo-electric cell will be used here in connection with a thyatron tube, sometimes called an electric valve. A succession of black and white blocks will pass before the device and an electrically operated arm will shove the white ones out of line. The difference in the light from the blocks will register upon the cell which in turn causes the thyatron tube to change the current flowing through the arm.

This is a very interesting application of the photo-electric cell and should be one of the most interesting exhibits of the day.

MINIATURE FILTER PLANT TO BE SHOWN

Glass Model of Modern Plant Has Been Built

One of the most interesting features of the Civil Engineering Department to be exhibited during Engineering-Architecture Day will be a small model of a filter plant.

This miniature plant illustrates the principle of all modern filter plants used in the water systems of today. It measures only 18 inches by 24 inches on the inside and about five feet high. The contents consist of about three feet of graded sand at the bottom and two feet of gravel on top of this sand. A small amount of alum is used to make the impurities coagulate more readily.

Glass slides have been provided in order that the whole process of changing muddy water at the top into clear, sparkling liquid at the bottom may be easily seen. The settling basins of the present-day filter plants permit most of the impurities of the water to collect at the bottom before entering the filter. However, no settling basins will be used in this model display so that the results may be more emphatically impressive.

The process of cleaning the filter by attaching the outlet of the filter to the water main will also be shown. The water runs up through the sand and gravel, collecting the impurities and depositing them outside the plant.

Drinking glasses will be provided so that the visitors may test the filtered water if they so desire.

RADIO TRANSMITTER BUILT FOR EXHIBIT

Music and Talks to be Broadcast During Exposition

One of the most modern and interesting exhibitions to be placed on display at the Engineering Building is a complete radio transmitter. This transmitter is an absolutely complete reproduction of a commercial broadcasting station. It will be in working operation at the time of its display and will be capable of being heard over any radio set within a radius of two miles of the transmitter.

The set is very compact and is surprisingly efficient for its size. The entire transmitter was built by electrical engineering students. It was completed in four weeks, with 15 hours labor per week.

The transmitter is composed of two major parts. The upper part contains the radio frequency unit and the lower section comprises the audio frequency division. The rating of the unit is about five watts and it operates on a frequency of 1500 kilocycles.

The set will be on display in the Senior Electrical Laboratory. Phonograph records and speeches will be broadcast during the time it is in operation.

There will be several radios situated in various parts of the Engineering Building. These will be tuned with the transmitter and the programs may be heard with ease in any part of the building.

This novel set was built by L. L. Walker and F. H. Williams. They were assisted by J. E. Guill, J. H. Muller, and H. S. Wilson.

Eleven University of Michigan co-eds were forced to flee outdoors in their night clothes early in the morning recently when fire broke out in the chapter house of the Alpha Gamma Delta sorority.

If all the nickles and pennies in circulation today could be equally divided among the population, each individual would have 91 cents worth of these minor coins.

TESLA COIL PRODUCES ARTIFICIAL LIGHTNING

Students to Demonstrate High Frequency Currents

The Tesla Coil is a device for producing artificial lightning on a small scale by the principle of a high frequency transformer. This coil stands about four and one-half feet high and measures eight inches in diameter.

Thirty-five hundred feet of wire was used in the making of this coil. A 35-plate condenser is used, each plate being about eight inches square. One hundred and ten volts is supplied to the primary coil which steps it up to 20,000 volts for the secondary coil. This coil, in turn, produces between a million and a million and a half volts. An electric arc of approximately three feet is expected from this high voltage.

The Tesla Coil is being made in the electrical laboratory by J. R. Coleman and W. F. Tribble, with the aid of several Juniors.

TINY HYDRO-ELECTRIC STATION TO BE SHOWN

Will Furnish Power for Model Electric Train

One of the most interesting exhibits planned for Engineering-Architecture Day will be a complete outlay for the development of hydro-electric power. A miniature lake and dam have been constructed and a power house built. When the water is set free one-eighth horse power of electricity will be produced.

A complete layout of a model up-to-date power development including sub-stations, company offices, houses, railroads, etc., will be included in this project. The power generated here will be used to run a small electric train. This interesting novelty will demonstrate the practical use of such a project. This should interest everyone as the future points to water as the source of all our electricity.

The layout described above is being constructed by L. I. James, W. J. Burton, W. A. Rhinehardt, and L. H. Harvin.

FAMOUS REMARKS

The ultimate result of the disarmament conference will be that people will be destroyed by 10-inch shells instead of 16-inch ones.

—George Bernard Shaw.

I've had acquaintance with 18 police departments in large cities and I swear to God they're all corrupt.—Charles Frances Coe.

There will be very few people starving after the next world war. There will be very few people.—Dr. Norman Kingsley.

Aw Rats

New York—(IP)—The bottom has dropped out of the white mice market. Likewise the white rat market.

This appalling situation is the result of curtailed funds for research work by universities and pharmaceutical companies.

A year or so ago a healthy blond mouse brought as high as 35 cents. Today he can be bought for from 8 to 15 cents. The price of white rats has dropped similarly.

Only the super-mice and super-rats bring the old prices. They sell for as high as 50 cents.

After College WHAT?



Advertising?

Frederick C. Kendall, editor of Advertising & Selling, says, "Advertising is still young. Yet it is already a vital part of every important industry. The professional advertising man must be not only a thoughtful student of human nature, but also a student of all American business."

"SPARKING" ideas are the life blood of advertising. That's why advertising men, as well as college men, turn to a pipe. For a good pipe with the right tobacco is man's first-aid to clear thinking and wisdom. As for the "right tobacco"—that's Edgeworth Smoking Tobacco.*

Just one puff will tell you why. It's that truly individual blend of fine old burleys—a blend you find only in Edgeworth. Once you try Edgeworth, nothing less will do. Want to try before you buy? Write for free sample packet. Address Larus & Bro. Co., 105 S. 22d St., Richmond, Va.

*A recent investigation showed Edgeworth the favorite smoke at 42 out of 54 leading colleges

EDGEWORTH SMOKING TOBACCO

Buy Edgeworth anywhere in two forms—Edgeworth Ready-Rubbed and Edgeworth Plug Slice. All sizes—15¢ pocket package to pound humidifier tin. Some sizes in vacuum sealed tins.



SPECIALS

- Tiger Head Sweaters ----- \$1.25
- Spalding (Zipper front) Clemson Sweaters -- 2.25
- New Spalding Tennis Balls, three for ----- 1.00
- Spalding Golf Balls ----- 25 and 35c.
- A few odd size Florsheim Sport Shoes ----- 6.85
- New Sport Shoes (this week) ----- 2.95 and up
- Closing Out some odd Pajamas at ----- 50c and 1.00

SEE

HOKE SLOAN

NOW

ENGINEERING PROJECT TO AID TRAFFIC JAMS

Model of Cloverleaf Intersection Built by C. E. Students

One of the interesting features of the Civil Engineering Department's display in connection with Engineering and Architecture Day will be a miniature clover-leaf intersection. The model, which is being constructed of cement grout on a scale of one-half inch representing one foot, will occupy about eight feet square, and should afford spectators an opportunity of seeing just how such structures operate.

The clover-leaf intersection is a practicable means which large cities sometimes employ for handling heavy automobile traffic with maximum efficiency and safety. By means of this engineering project an automobile operator may turn to

the right in order to continue in any new direction. The driver also avoids dangerous intersecting traffic.

The structure consists of intersecting roads which wind about in the form of a clover-leaf, and cross each other by means of a viaduct. Several large cities of the country have already constructed clover-leaf intersections, but their use has not yet become widespread. An interesting actual example of this type of structure is in use in the city of Washington.

Work on the exhibition model is being supervised by R. D. Stevenson of the Senior Civil Engineering class.

Architecture is becoming the dominant art, and artists will find salvation in the subservience of their craft to its leadership—Dr. A. J. Barnouw, Columbia University.

The intellect must be the master of the emotions solely to be their proper servant.—Gerard Forrest.

SEVERAL ODD EXHIBITS IN TECHNICAL DISPLAY

Marbles and Eggs to Do Tricks for Visitors

Although most of the exhibits to be presented on Engineering-Architecture Day will be educational, there will be several contrivances on display that seem almost paradoxical.

One device causes balls and eggs to float in the air with no visible means of support. Another causes marbles to dance unattached in columns of water.

The Mechanical Department will present a very unusual steam engine and steam turbine. The intake showing that no steam enters the cylinder. Yet the engine runs smoothly. The turbine, which is enclosed in a pint fruit jar runs seemingly without power.

The Electrical Department will exhibit a generator, equipped with a crank, which although it is very difficult for a man to turn the same crank, a child can turn with ease. This department has also constructed an electric fortune teller for those who wish to delve into the future.

A "professor" Manuel Rodriguez is under arrest in Seville, Spain, charged with operating a school to teach young boys how to make bombs. Some of his students were sent to reform schools.

Bird—See that girl over there? Well, the relations between her and me are purely platonic.

Mac—Yeh, play for you and tonic for her.

Ella—Do you think you are Santa Claus?

Russ Wait—No, why?

Ella—Well, then leave my stockings alone.

TEXTILE DEPARTMENT AWARDED FELLOWSHIP

Huckabee and Wyatt to Conduct Special Experiments

The Clemson Textile Department, South Carolina, has been awarded a fellowship by the Glyco Products Company, Inc., of Brooklyn, N. Y., makers of many new and interesting products, among which are thickening and emulsifying agents, synthetic resins, glycol and glyceryl products, and foam producers.

For this school year the fellowship has been awarded to Messrs. M. L. Huckabee and C. D. Wyatt, students at the Clemson Textile Department, who will conduct studies with a view to finding new and extended uses for the above Glyco products.

Man's wits and hands will never save us.—Dr. Joel B. Hayden.

DANCING ON GLASS



ILLUSION:

In India, the fakirs present a spectacle to tourists. Two lovely performers break bottles and lamp chimneys before the eyes of the audience, and throw the jagged pieces into a box already filled with broken glass. They step barefooted into the box and do an Oriental dance in the glass without injury.

EXPLANATION:

The performers toughen their feet in a strong solution of alum water and thoroughly rub them with pulverized resin before they appear. They throw the freshly broken glass around the edges of the platform. The glass on which they actually do dance is very thick, heavy, and filed or ground so that the sharp edges are rounded off. The girls just pretend to dance on the sharp glass.

SOURCE: "Magic Stage Illusions and Scientific Diversions" by Albert A. Hopkins, Munn & Co., New York.

IT'S FUN TO BE FOOLED ...IT'S MORE FUN TO KNOW

One of the tricks of cigarette advertising is to pretend that "Heat Treatment" is an exclusive process, making one cigarette better than any other.

EXPLANATION: All cigarette manufacturers use heat treatment. It is a routine process of manufacture. The first Camel cigarette ever made was manufactured under the heat-treating

process. Every one of the billions of Camels produced since has received the necessary heat treatment.

Harsh, raw tobaccos require intensive processing under high temperatures. The more expensive tobaccos, which are naturally mild, call for only a moderate application of heat. Heat treatment never can make cheap, inferior tobacco good.

It is a fact, well known by leaf tobacco experts, that Camels are made from finer, MORE EXPENSIVE tobaccos than any other popular brand.

This is the most important statement ever made in a cigarette advertisement. Weigh its words. Consider what it means. Then try Camels.

Camels are fresh...in the air-tight, welded Humidor Pack.



Copyright, 1933, R. J. Reynolds Tobacco Company

CAMELS



NO TRICKS
...JUST COSTLIER
TOBACCOS

IN A MATCHLESS BLEND

CLEMSON TANKMEN IN
STATE MEET THIS AFT.

THE REALM OF SPORTS

PLAY TENNIS—COURTS
IN PLAYING CONDITION

Trailing The Tigers

with JOE SHERMAN

Coach Neely was not sufficiently satisfied with his grid warriors after the fourth game to call it a day. The Tiger mentor announced immediately after the contest that he would continue the spring campaign at least one more week. He has been hard at work with his men now for six weeks, which means that when the regular season rolls around next September, Clemson's Tiger will be roaring to go. About the only thing left for the men to do when they return to school will be to get into shape. They will have learned the plays, spent a great deal of time on the fundamentals, and above all they will know just what is expected of them.

It doesn't pay to count your chickens before they hatch, but at the same time it may not pay to count the Tigers out of the state baseball race for yet a while. Even though the March winds are whistling over the diamond at a rapid rate, any afternoon will find between 30 and 40 ambitious youths swarming around on the lower half of Riggs' field. It isn't likely that Coach Neely will not be able to develop a dozen or so men from that bunch who will be capable of putting up a good fight against the best of them. The Bengal mentor will at last have a pitching staff of more than two men. The two twirlers that carried the brunt of the battle last year will be available, in addition to the service of Foutsie Davis and Wheel Clark.

The sporting eyes of the South are now beginning to turn toward Tigertown again. Old Timer, writing in an Atlanta paper, informed his readers the other day that it will not be at all a bad idea for those teams who have scheduled games with the Tigers next year to begin right now to take them seriously. His praise for the Bengals was warm indeed, and he seems to be of the opinion that it will take more than just an average team to stop them during the coming season. Old Timer knows his foot-

ball and kind words like these are certainly encouraging.

The man who does not think that athletics are on the up grade at Clemson just has not been near the Tiger's place of business for quite a while. Every afternoon some 150 men are getting in trim for some branch of athletics. The Tiger coaches certainly do not believe in losing any time. Coach Joe Davis has already announced that there will be a spring basketball practice. This early basketball idea began last year and brought most favorable results. It gives the boys a chance to get used to playing with each other, and this is one of the most important steps in the formation of a winning basketball team.

STRAY SHOTS: Mountain Goat is getting into shape fast. He was instructed to take a rapid 100 yard dash the other day. Although he ran in his sweat clothes, it took him exactly 10 seconds to cover the distance. The mob of cadets who turn out every afternoon to pitch horseshoes. Just another 'back to the farm' movement. Ted Simons is to be seen on the track in the afternoons getting into shape for the hurdles. Carolina seems to have the inside track for the baseball championship. Bill Laval has practically the same team that were runners-up last year in addition to a host of good material from the freshman team. He expects to get a couple of valuable pitchers from his conference champion basketballers. Dizzy McLeod's Purple Hurricane will be far from a set up. Dizzy, a brilliant twirler in his day, won consistently from Flint Rhem when those two men were pitching for Furman and Clemson respectively. The Tigers will have an exceptionally strong defensive baseball team, but they will miss the sluggers of last year. Wheel Clark running right behind Robinson in the 440 last Friday. Boone Proctor working off several pounds around the waist line. Johnson Craig showing 'em how to scoop 'em up in the hot corner, and then deciding to stick to the cinders.

SWIMMERS SPLATTER
FURMAN IN Y POOLWin First Meet; Entered in
State Meet

A Clemson aquatic aggregation, led by a group of Charleston boys, defeated Furman's Hurricane swimmers in an exciting meet held in the local Y pool Tuesday afternoon, by a 44 to 31 score.

This is the first time in several years that the Tigers have had a swimming team, and from the appearance made against the Greenwillians, they should give all competing teams ample opposition.

200 yd. breast stroke: Glass, Furman, first; Geraty, Clemson, second; Rudger, Furman, third.

40 yd. Free style: Rollins, Clemson, first; Van de Erve, Clemson, second; Smith, Furman, third.

100 yd. Free style: Fisher, Clemson, first; Rollins, Clemson, second; Childers, Furman, third.

220 yd. Free style: Rollins, Clemson, first; Allison, Clemson, second; Stevens, Furman, third.

440 yd. Free style: Fisher, Clemson, first; Geer, Furman, second; Thomas, Clemson, third.

Medley relay (240 yd): Furman, first (Sacco, Glass, Adair)

Fancy diving: Sacco, Furman, first; Thackston, Clemson, second; Wilson, Furman third.

150 yd. Back stroke: Sacco, Furman, first; Basha, Clemson, second; Van de Erve, Clemson, third.

Rollins and Fisher, for the Bengals were outstanding, each coping two first places. Sacco and Thackston gave a beautiful exhibition of springboard technique in the diving event.

The Yellow Peril swimmers took part in the State Meet held at Furman University this afternoon. Besides Furman and Clemson, South Carolina and Presbyterian were entered in the tournament.

Coach Holds Many Offices

College Park, Md.—(IP)—Following an attack by the Sunpapers of Baltimore on his receiving \$4000 as football coach, \$5000 as vice president, and \$2500 as athletic director of the University of Maryland, the student council of the university last week passed a resolution backing H. C. (Curley) Byrd. The Diamondback, student newspaper, printed pictures of Byrd taken in 1924 and 1933, showing how the work at Maryland had affected him.

DIAMOND CANDIDATES
ROUNDING INTO FORMNeely to Mould Team Around
Four Returning Veterans

Coach Neely and his baseball candidates have taken advantage of the warm rays of Old Sol lately, and the Tiger diamond has been the scene of much action during the past week, as the few veterans of last year and a host of new recruits go through mild fielding and batting practice.

Of the hard hitting team that won the Palmetto league flag for the Tigers last year, only four men remain for service this season, and the trying job of moulding practically a whole team faces the mentors.

Four men—two hurlers, a catcher, and an outfielder—form the nucleus for the 1933 edition. Veterans in the box this year will probably be W. A. Burgess, Foutsie Davis, and Rivers. Harold Clark, who switched from an outfield position to the pitcher's box during a crucial game, and immediately showed power as a hurler will probably alternate between the outfield and the mound during the coming season. In Boone Proctor, the Tigers have one of the best backstops in Southern collegiate circles. He is excellent on receiving and his snappy throw to second catches many base-runners unawares.

Practices thus far have consisted of rather light work, but the squad is expected to get down to hard hitting and strong defensive work. Last year, Coach Neely took what was considered a mediocre team and turned out a pennant-winning outfit. A large number of men are out at present, and Clemson should have a good nine this spring.

TRACK TEAM HOLDS
PRE-SEASON TRYOUTSCold Weather Hampers Can-
didates in First Compe-
tition

Although the cold weather and a strong wind kept the members of the track squad from showing their best form, the first light trial meet was held last Friday afternoon. Coach Howard was far from pleased with the results and he will endeavor to have the cindermen showing a great improvement before the next trials, and especially before the first meet.

Lynn's brilliant performances in the 100 and 220 yard dashes were the only reasons the coach had for smiling. Lynn's time in the 100 was 9.9 seconds, and he breezed across the finish line of the 220-yd. dash in 22.4 seconds.

Due to the fact that the hurdlers and weight men were not in the best of condition, they were allowed to wait until a later date for their first trials.

Results of the trial events were as follows:

100 yd. dash—Lynn, Hill, Vance
220 dash—Lynn, Spearman, Vance
440 dash—Robinson, Clark, Hankinson
Half-mile—Roberts, Lewis, Neusner
Mile—Suggs, Latimer, Watson
2 miles—Altman, Evatt, Latham
High jump—Lipscomb, McMahan

A letter has been sent to President Franklin D. Roosevelt by the American Civil Liberties Union urging action by the Federal Government to promote freedom of speech.

The first home game is scheduled for April 3, with the Erskine Seceders offering the opposition.

CIVIL DEPARTMENT

(Continued from page one)

together with an operating filter plant which permits the observer to view its operation in removing suspended matter from water will occupy an important place in the exhibit.

The clover-leaf street intersection, a modern method of handling heavy auto traffic in large cities, and which permits the driver to turn to the right in order to proceed in any new direction will also be constructed. Various maps including a location map of present engineering projects of the South Carolina Highway Department will be displayed.

Student work in many fields of the civil engineering profession will be dealt with, in addition to individual projects which are being developed according to the originality of the students.

An invitation is being extended by the departments of engineering and architecture to all persons interested in this line of work to be guests of the college during the entire day, which will include many events in addition to the technical exhibits.

Prof. Little (to co-ed in History of Painting class) "How about a date?"

Co-ed—No thanks, I've learned my lesson.

DO YOU need a little Cash for Spring Holidays? For every \$10.00 you trade on your R. O. T. C. check (from now until the Holidays) I will advance \$5.00 on your April check. On a \$5.00 purchase, \$2.50. Only purchases beginning March 16 can be considered. Hoke Sloan, Clemson Clothier.

SPECIALS

SHOE POLISH -----5c

75c STATIONERY VALUE

10c Val. HANDKERCHIEFS...5c

49c

SHOE STRINGS -----5c

College Pound Paper

60 sheets paper—25 envelopes

50c DR. WEST OR PROPHYLACTIC TOOTH BRUSH AND
1 TUBE DR. WEST TOOTH PASTEBoth for 50c
PALMOLIVE SHAVING CREAM, TALCUM AND
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All for 49cPostal Scale FREE
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35c LAVENDER Shaving Cream
Both For

49c

I.O.U.'s will be accepted for any merchandise during the Bank Holidays

L. C. Martin Drug Co.

P. S. McCOLLUM, Manager
OFFICIAL COLLEGE BOOK & SUPPLY STORE

SECOND ANNUAL EXHIBITION

(Continued from page one)
the principal points of interest to the visitors.

At 6:00 o'clock supper will be served the visitors in the Mess-hall.

At 7:30 there will be an entertainment in the Chapel by the Jungaleers and Junior Engineering students. Afterward, the technical displays will again be opened.

The festivities will be brought to a close with a dance in the Field house at 9:30. The Jungaleers will furnish the music.

Prof. S. B. Earle, Director of the Engineering school, is faculty chairman of the committee in charge of the exposition, and Prof. D. D. Curtis is faculty advisor. T. M. Watson is chairman of the student committee which is composed of the following: D. D. Sherrill, Mechanical department; E. A. Newbury, Architectural department; R. H. Lindsay, Civil department; C. P. Walker, Tau Beta Pi; T. H. Hewitt, publicity.

MECHANICAL DEPARTMENT

(Continued from page one)

view of two cars—one a 1912 Ford in running order and the other a 1931 Plymouth cut away in sections so that a view of the actual operation of the machine may be obtained. The Ford formerly belonged to Prof. Dargan who used to be a professor of engineering at Clemson. The Plymouth was presented to the college some time ago by Chrysler Motors.

Next in the exhibit comes a demonstration of a one-cylinder, internal combustion engine. The work done in the construction of this engine, from the development of the patterns to the final machining, was done entirely by students.

A puzzling device which makes the weak seem strong is the torque amplifier. A twist of a little finger on a wheel is sufficient to raise weights of one hundred pounds or more.

Oils of various kinds, descriptions, and uses will be shown in another exhibit. It also contains a machine which runs continuously, showing the viscosity of the oils.

In addition to these major demonstrations there will be any number of minor ones equally as interesting.

ELECTRICAL DEPARTMENT

(Continued from page one)

railway. The railway will be controlled from a remote corner of the room from which the trains will be made to start, stop, and be switched from one track to another at will.

A complete radio transmitting and receiving set will be in operation. An interesting stunt will be a horseshoe pitching contest in which the players endeavor to throw an aluminum ring over a peg but in vain as the ring will continually slide off.

A small museum containing electrical instruments of the earlier days of the science as well as dis-

plays of the most up to date equipment will be open. The General Electric Company is sending a display illustrating novel and practical uses of electric lights and some of the students are building a sign constructed of lights which flash in sequence in such a way as to make the design seem to move.

Several mechanics of neighboring towns will have displays of various types of domestic electrical equipment.

SHOPS OFFER MANY DISPLAYS

(Continued from page one)

many articles made from wood can be actually witnessed. Band saws, jig saws, circular saws, planers, sanders, and wood lathes will be in use just as they are in industry. One of the most important operations performed in this division is the making of patterns which are used in conjunction with the molds in the foundry. Many patterns made by students and used in the foundry will be on display.

The large cupola in the foundry which is used for melting bulk metal and preparing it for molds will be fired up and several hundred pounds of gray iron converted into freely flowing, white hot liquid at a temperature greater than 2100 degrees Fahrenheit. This metal in the molten state is tapped from the bottom of the cupola through a suitable aperture into a ladle in which it is conveyed to the prepared molds and poured. Many other operations incidental to foundry oper-

ations are to be illustrated, including the methods of preparing the molds from special sands.

In the machine shop the almost human machines for handling, cutting and shaping metal are to be operated by students to illustrate the various functions they perform. Among the machines in this division are metal lathes, drills, punches, shapers, and milling machines. In addition to these informative displays there will be exhibits of work actually done in the shop by stu-

dents studying machine shop methods.

A trip through the shops is highly educational and it is anticipated that many visitors will inspect the work and equipment of this division.

ARCHITECTURAL DEPARTMENT

(Continued from page one)

the Architectural Department. This exhibit should be of interest to everyone and a visit to the top floor of the Engineering Building should be well worth the time spent.

Baltour's fine line of Jewelry

— AT —

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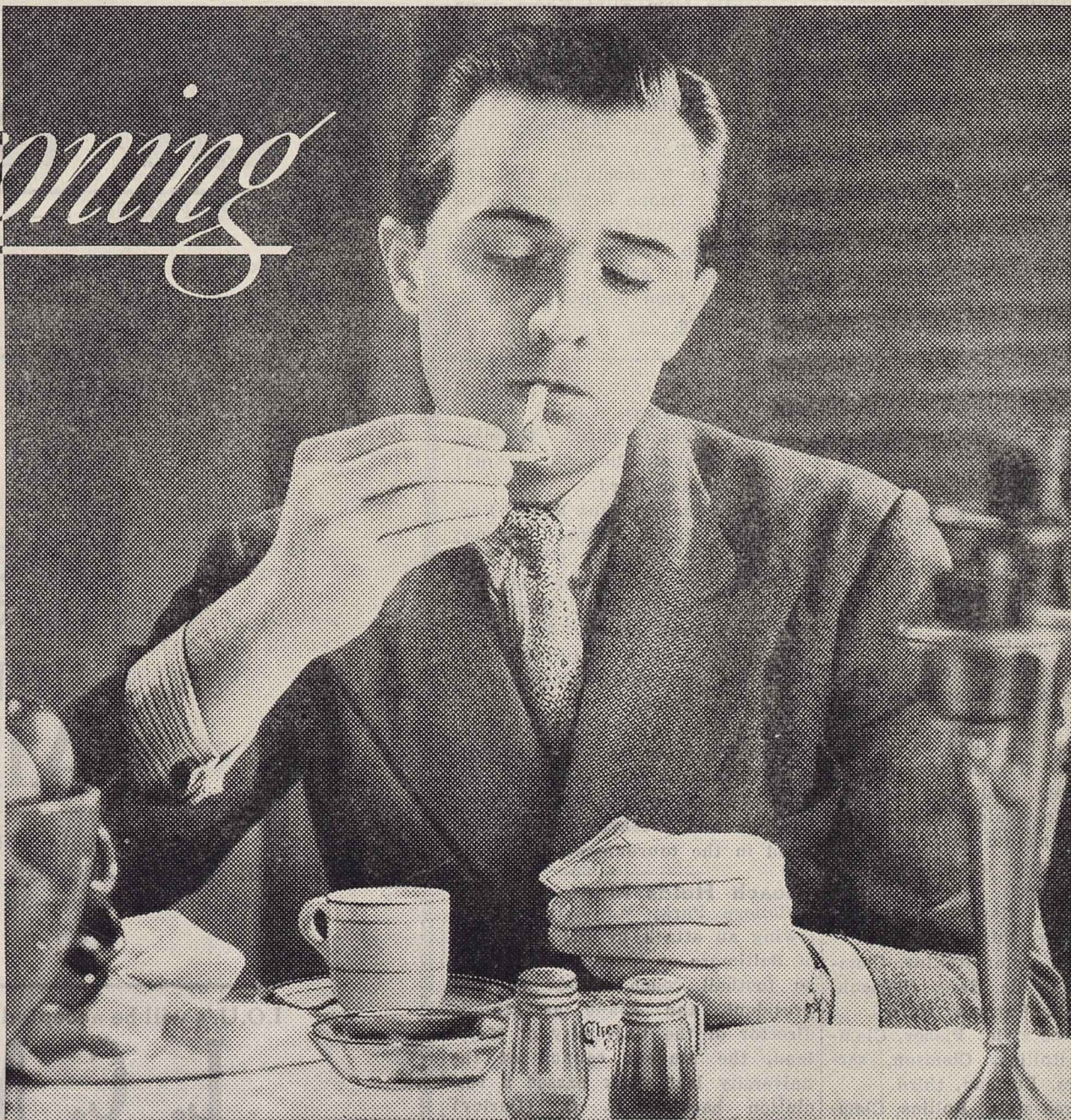
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SMOKERS notice a certain "touch" in Chesterfields that comes from having just enough Turkish tobacco in them . . . a spicy, aromatic flavor that's much the same to a cigarette as seasoning is to food.

For only by blending and cross-blending the right amounts of mild Domestic tobaccos with the right amount of Turkish can we get the flavor and aroma that Chesterfield smokers enjoy.

Next time, ask for "The Cigarette that Satisfies". . . you'll get Chesterfields, with Milder, Better Taste.



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Chesterfield

THEY'RE Milder —
THEY TASTE BETTER